

## ISSUE:

Duration-based timeouts for interactions are represented in CDL, but Deadline-based timeouts are not.

Deadline – or Absolute - timeouts are useful when there is an absolute threshold for when an interaction to have completed, which is not based on the time the interaction commences. An example of a use case for Deadline timeouts is when a long running choreography – such as an online Broadband service ordering system – contains certain interactions which need to complete at the end of any given week or month – such as the interaction for processing an evaluation of a potential Broadband subscriber's serviceability (distance from the station, quality of the cabling, etc.).

## PROPOSAL:

Extend the definition of an interaction in CDL provide a Deadline-based timeout element:

```
<interaction ... time-to-complete="xsd:duration"? date-to-complete="xsd:date"?>
```

and add the requirement that a choreography engine must:

1. Support both Duration and Deadline timeouts
2. Ensure that only one type of timeout can be specified for any one interaction